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TITLE: METHOD, APPARATUS AND SYSTEM
FOR HIGH-SPEED TRANSMISSION...
INVENTOR: AGAZZI
APPLICATION NO.: UNASSIGNED
CONF. NO. : DOCKET NO. 13449US03
ATTORNEY: JAW, PHONE: 312-775-8000

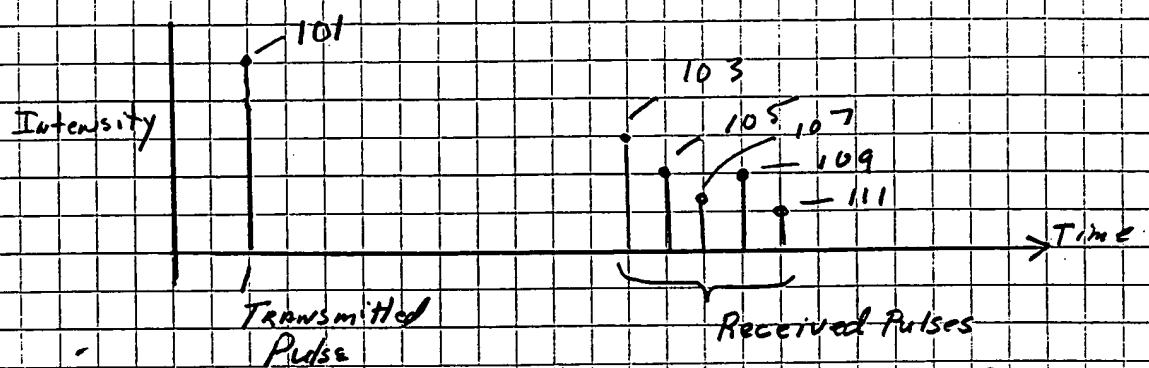


Figure 1A

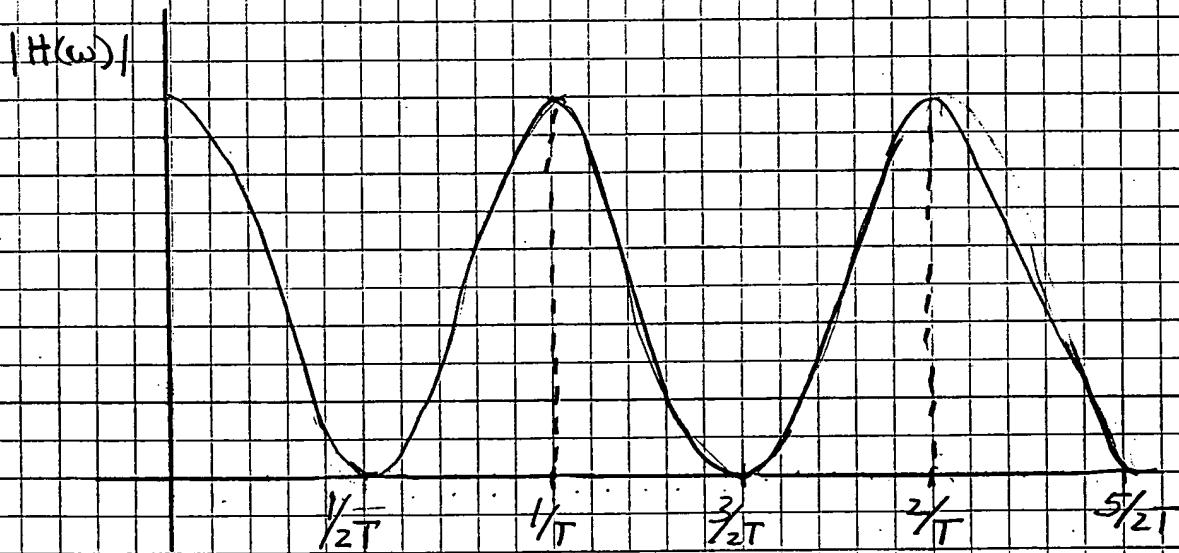


Figure 1B

B600 - 36980

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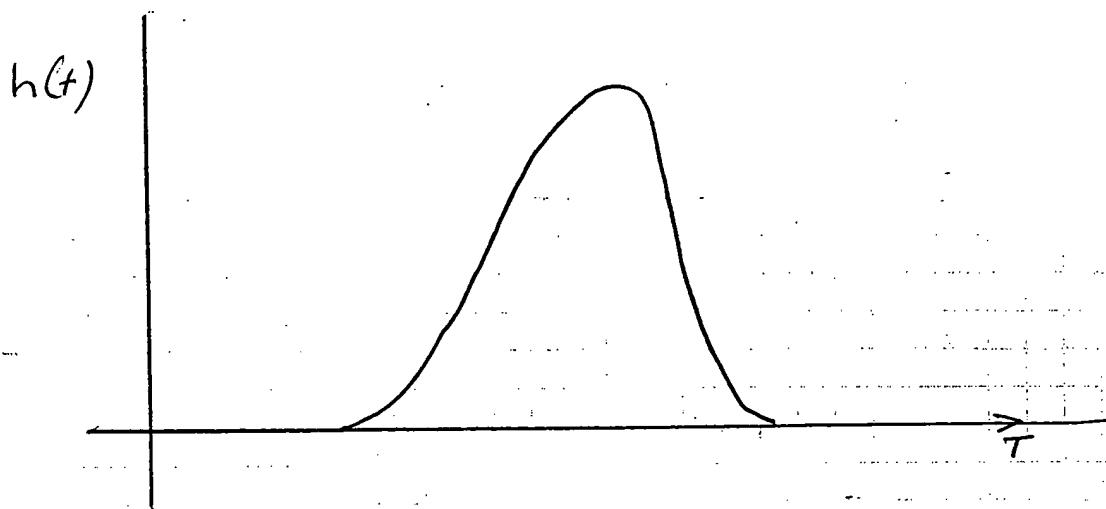


Figure 1C.

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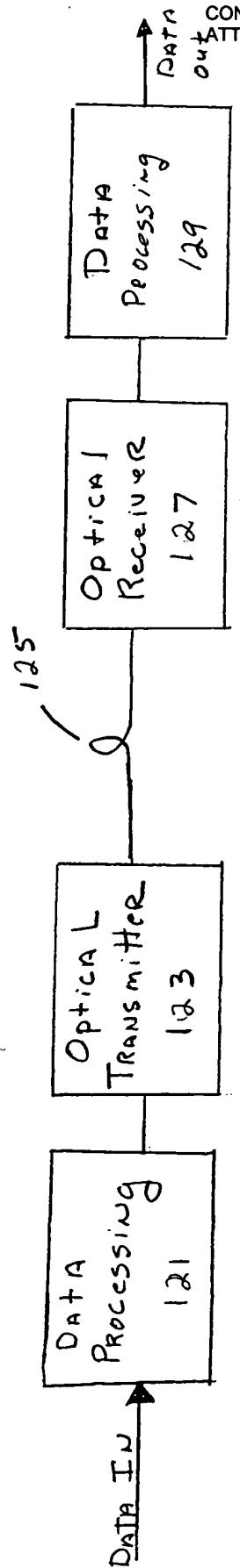


Figure #1D

Multicarrier Modulation Block Diagram (Transmitter)

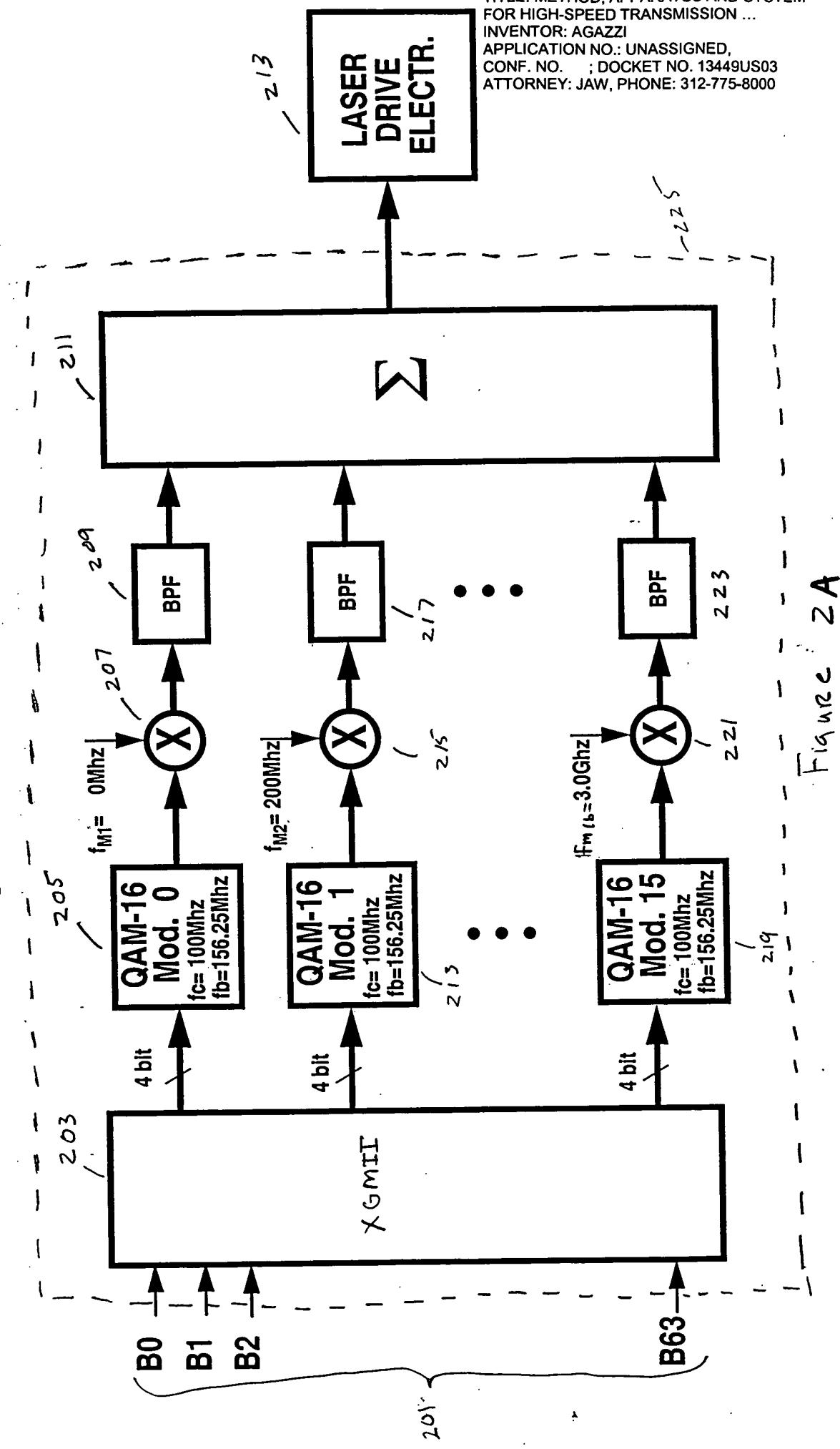
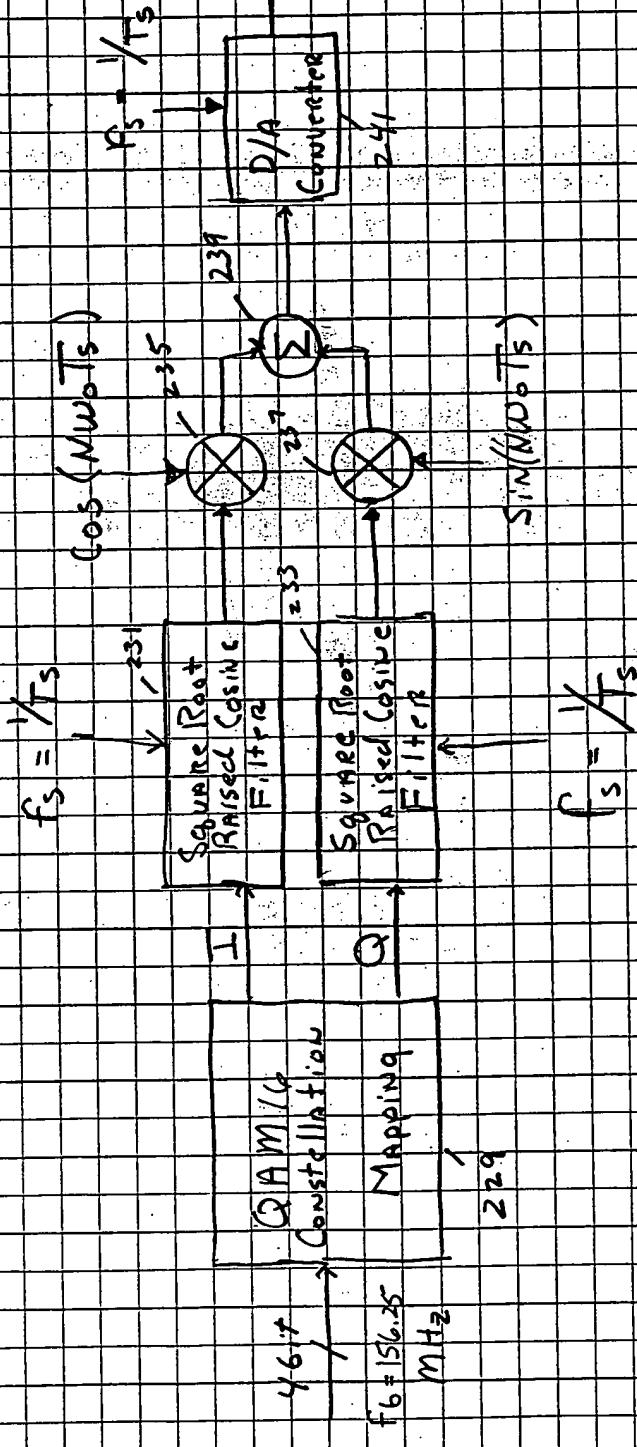


Figure 2A

205



$$\sin(N\pi f_c T_s)$$

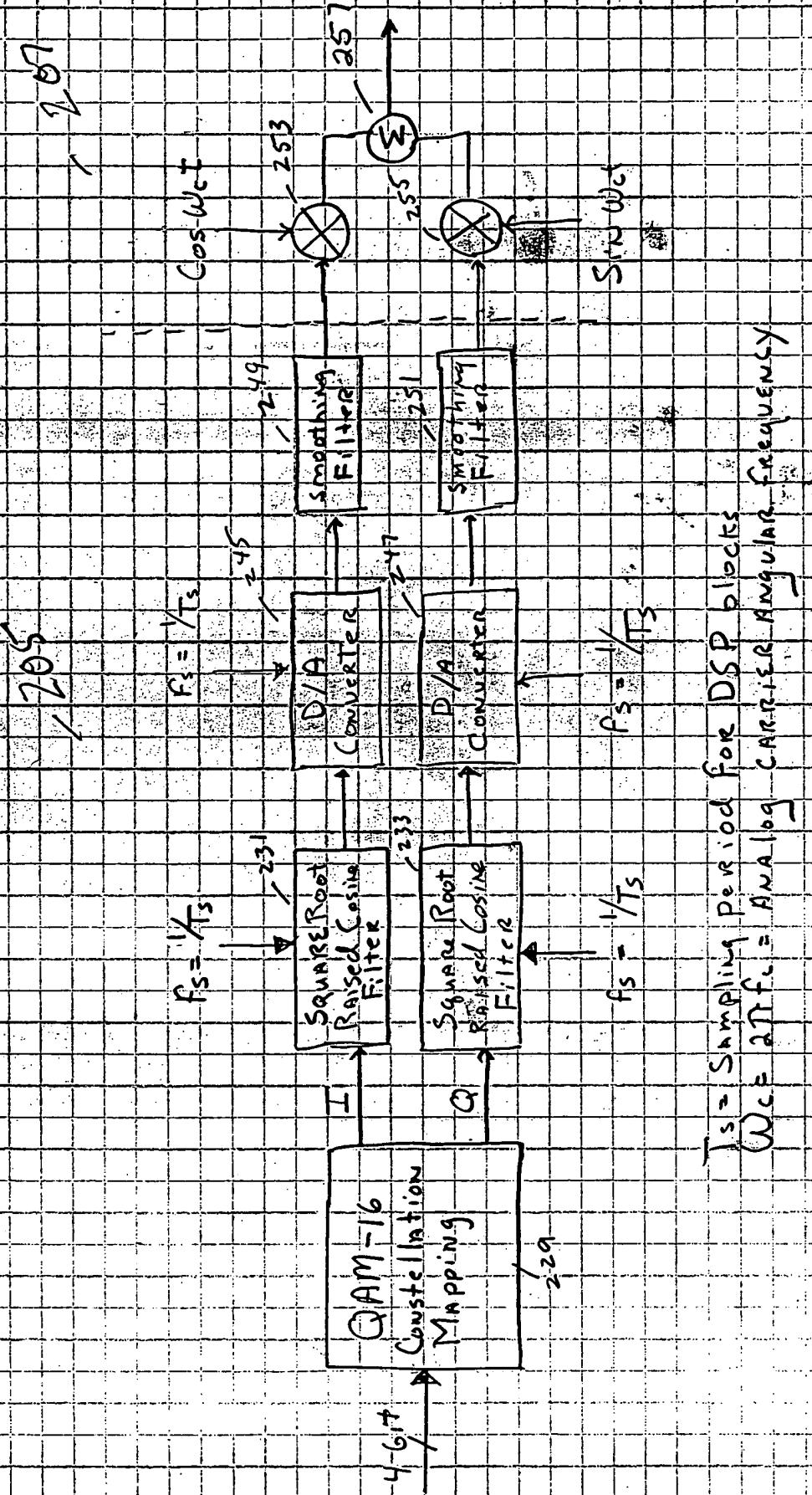
$$f_s = \frac{1}{T_s}$$

T_s = Sampling period

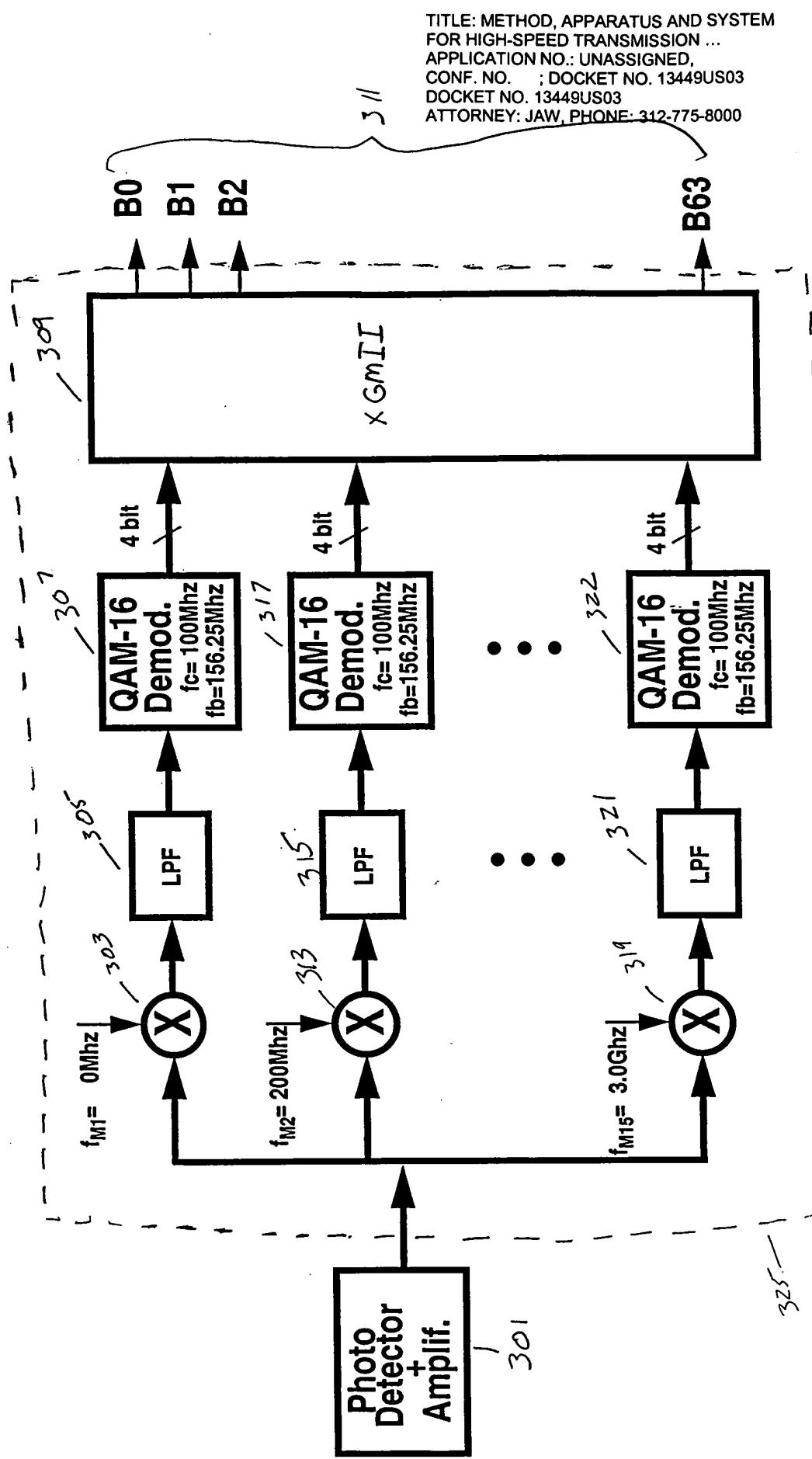
$\omega_n = 2\pi f_s$ = digital carrier angular frequencies

Figure 2B

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Multicarrier Modulation Block Diagram (Receiver)



Alternative Implementation of Multicarrier Modulation (Transmitter)

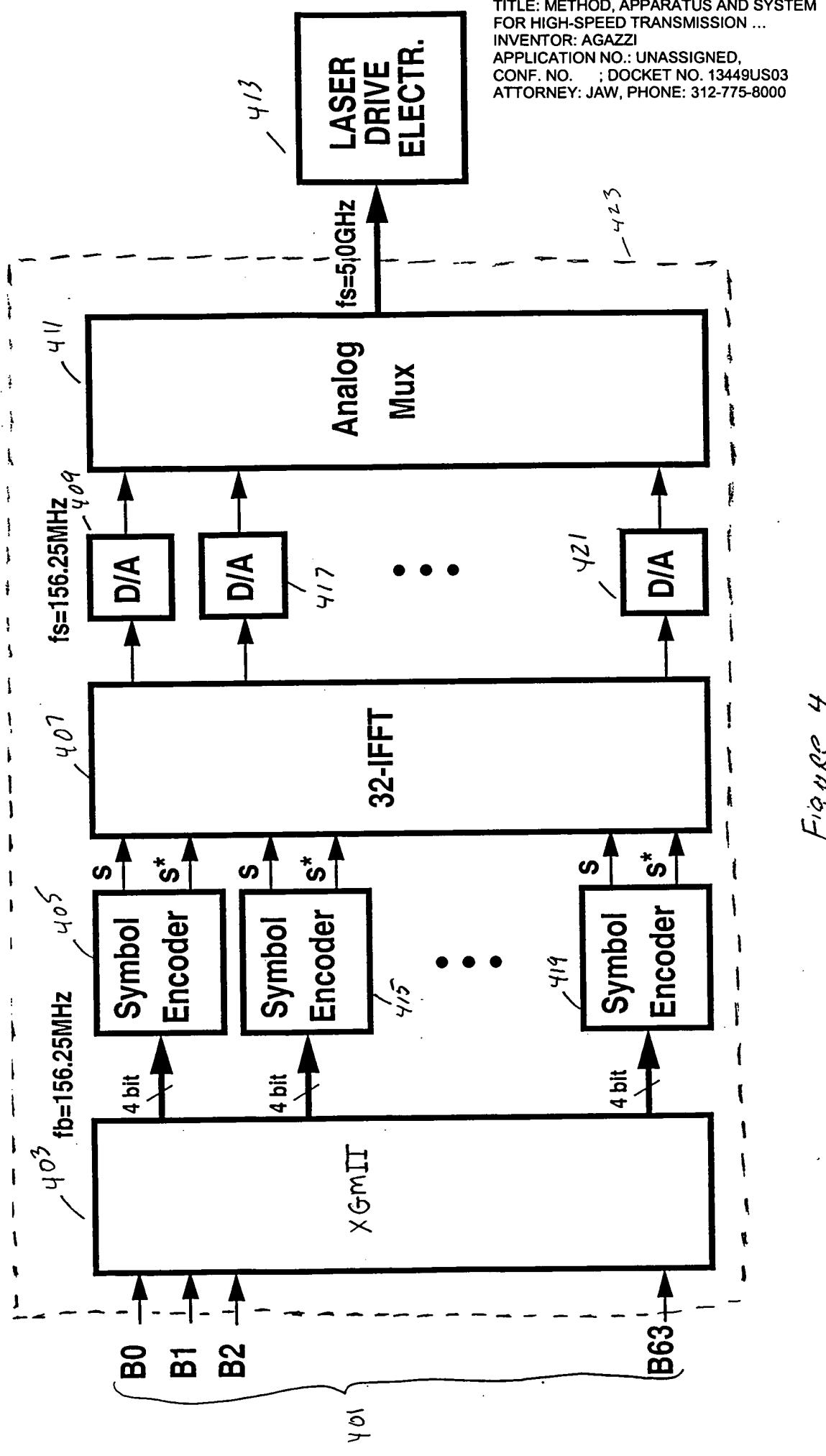


Figure 4

Alternative Implementation of Multicarrier Modulation (Receiver)

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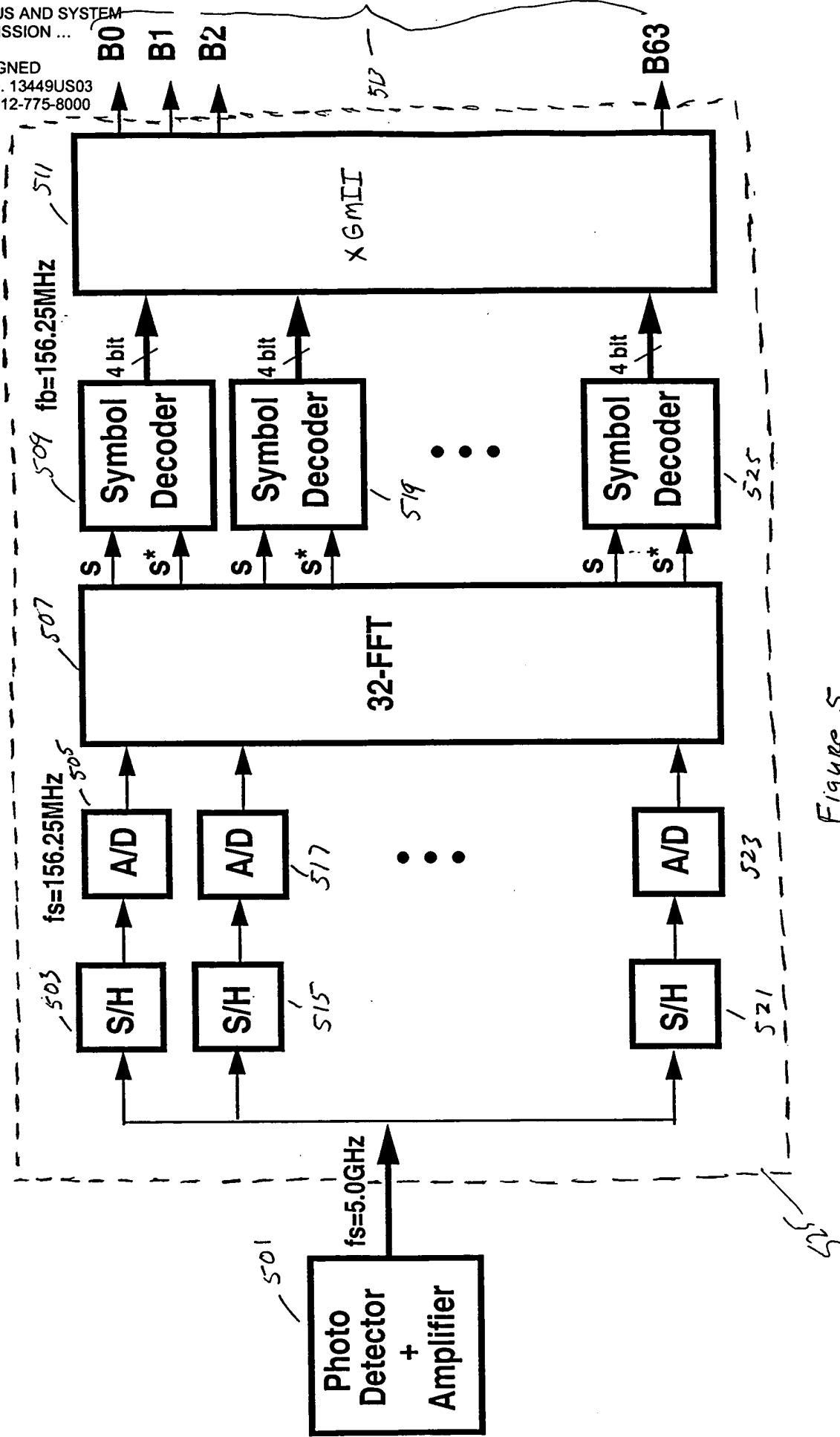


Figure 5

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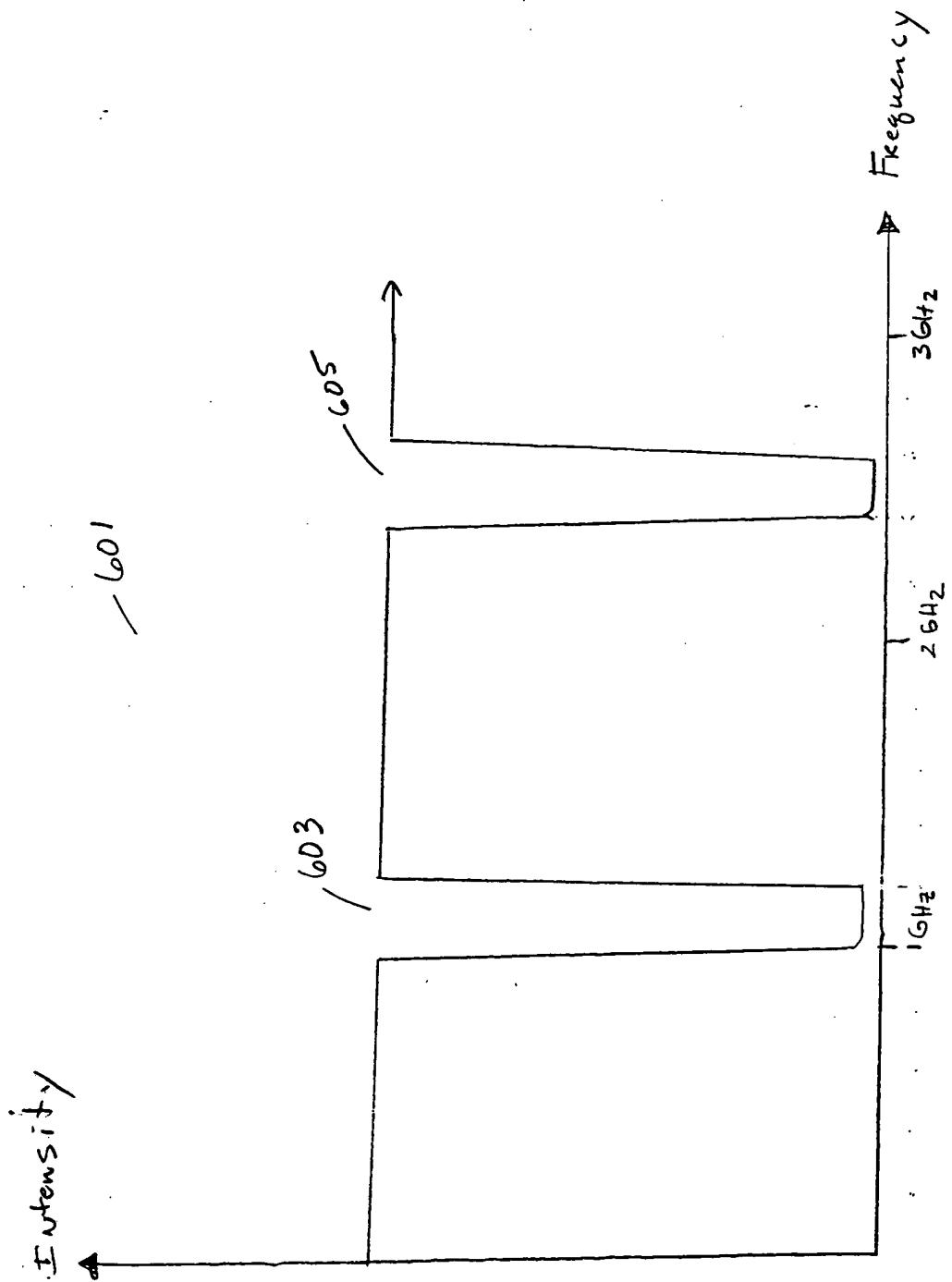


Figure 6

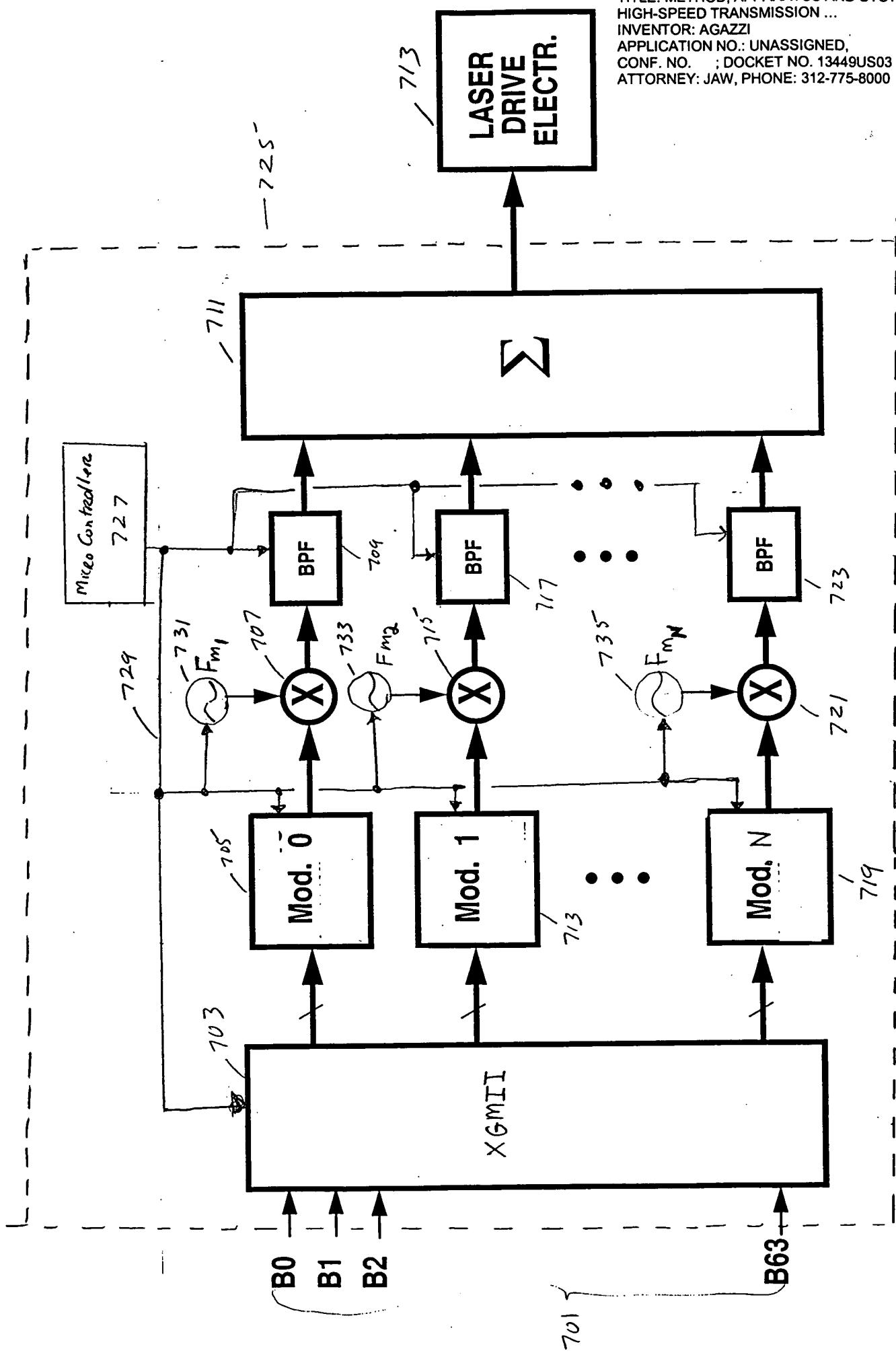


Figure 7A

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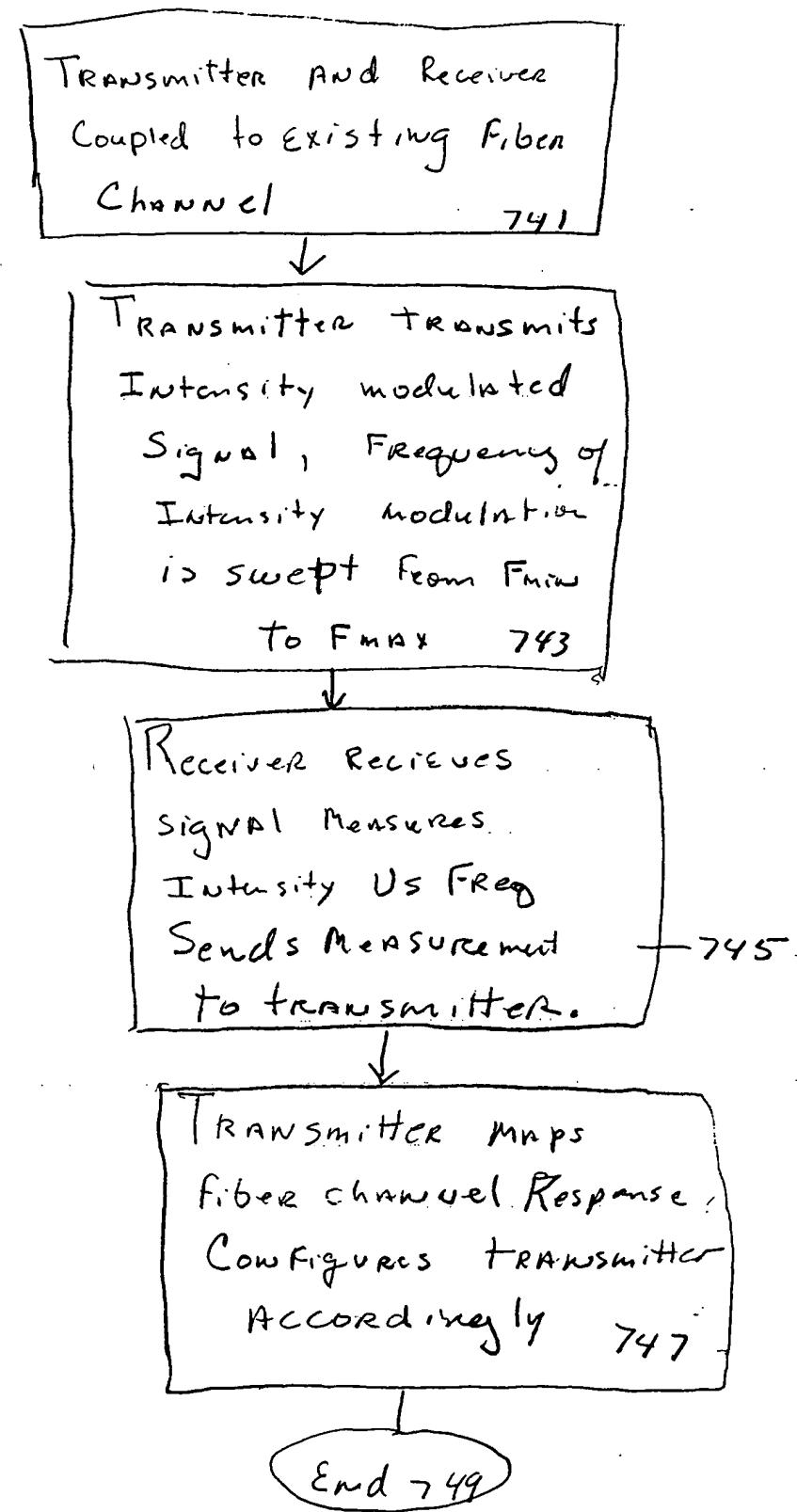


Figure 7B

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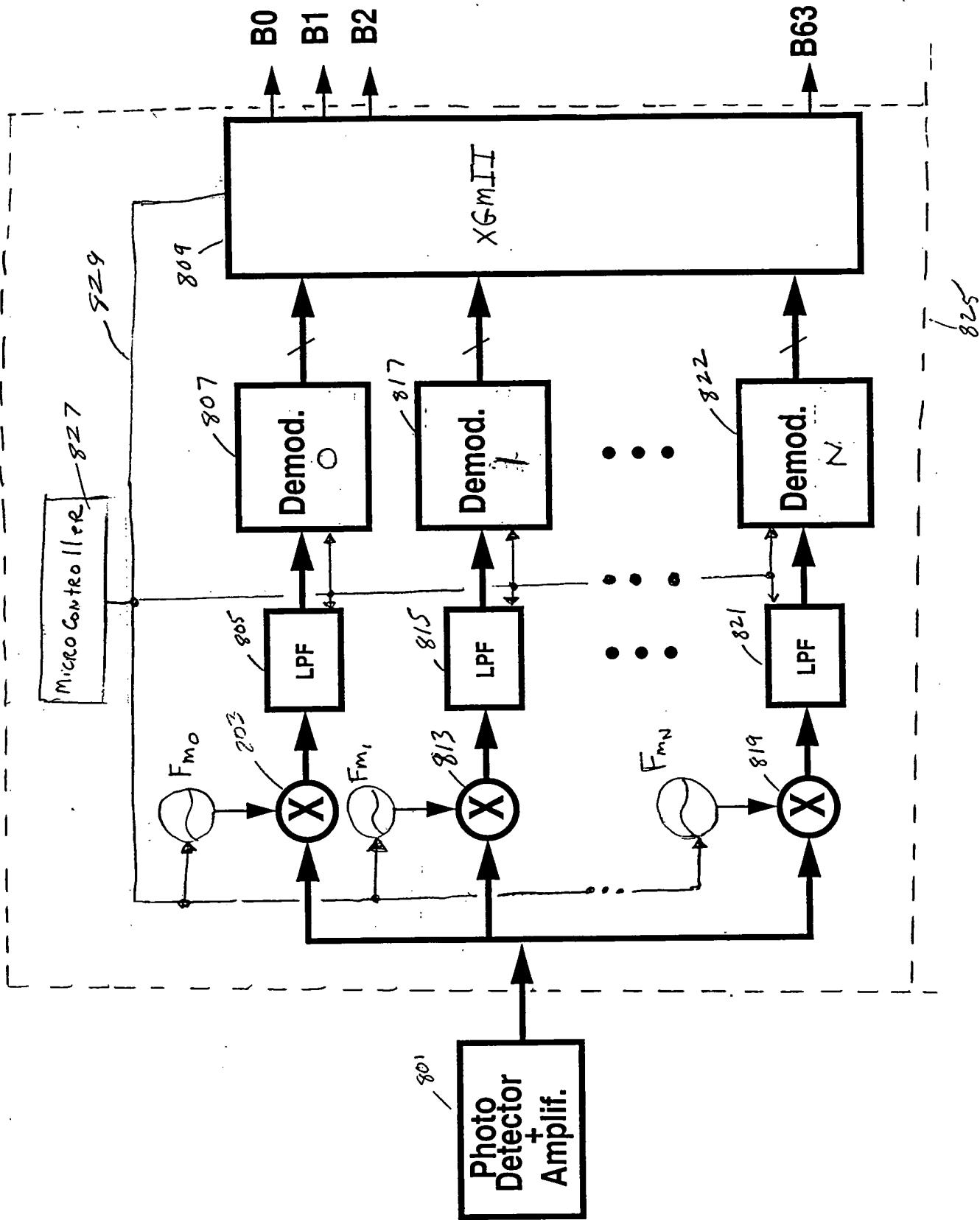


Figure 8

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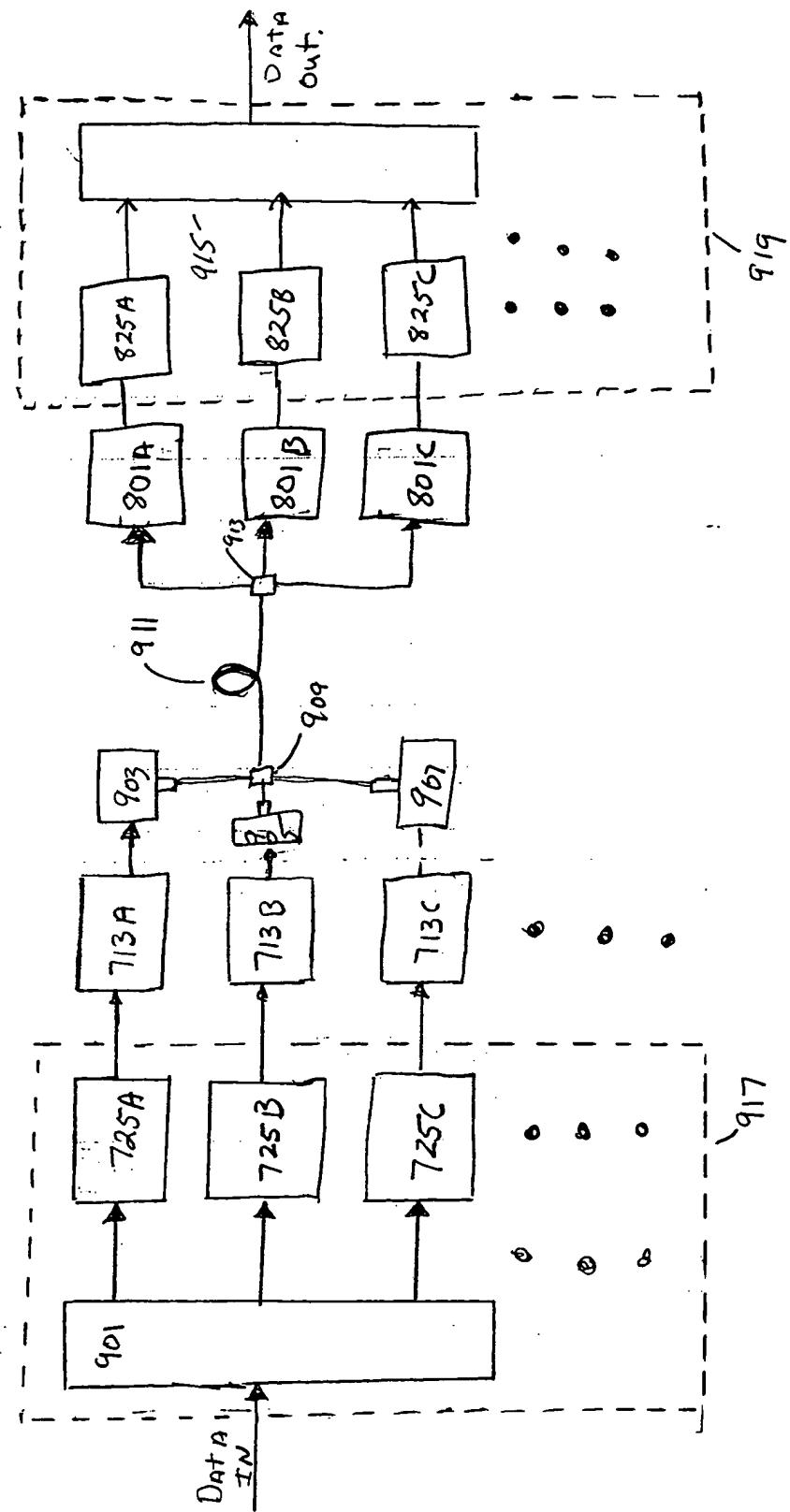


Figure 9

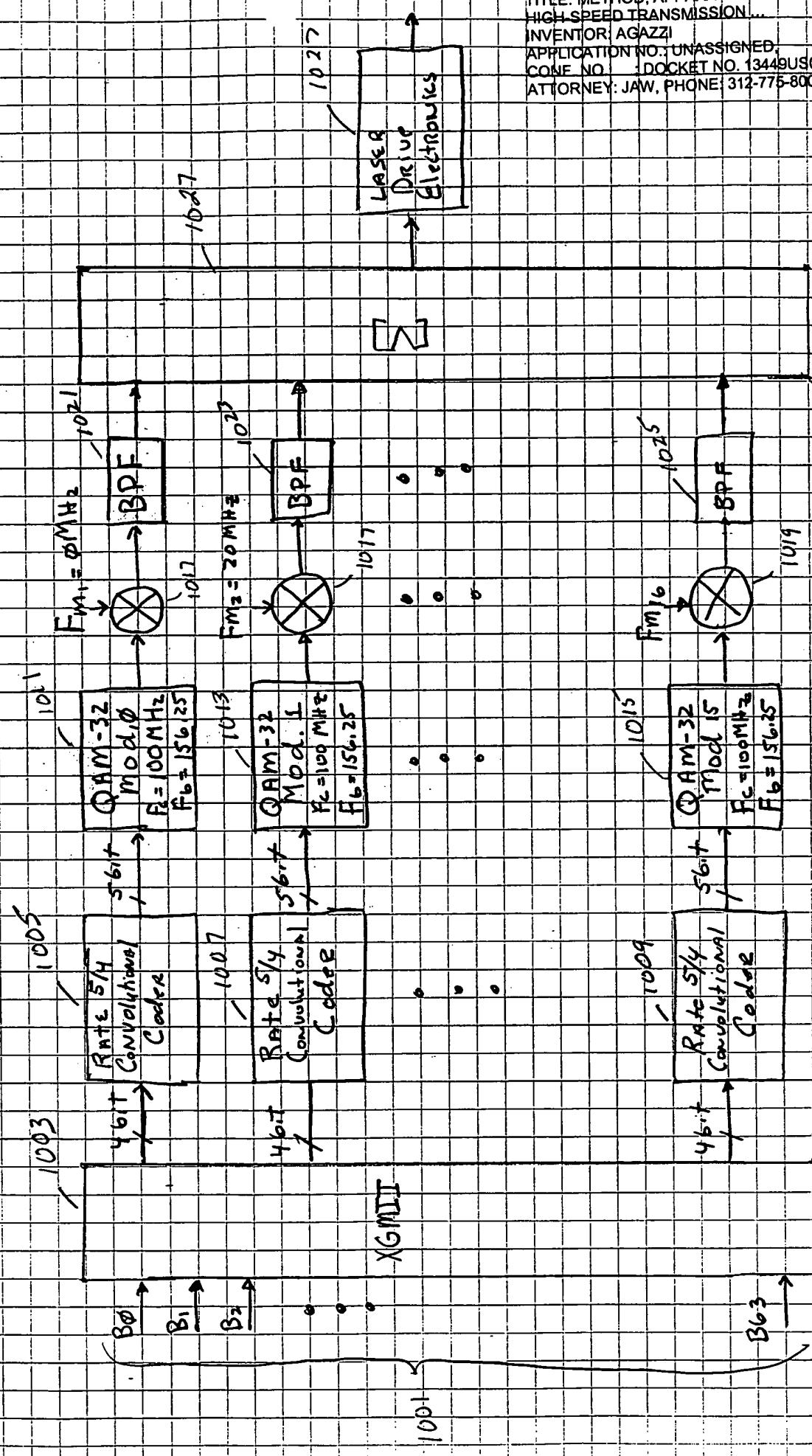


Figure 10

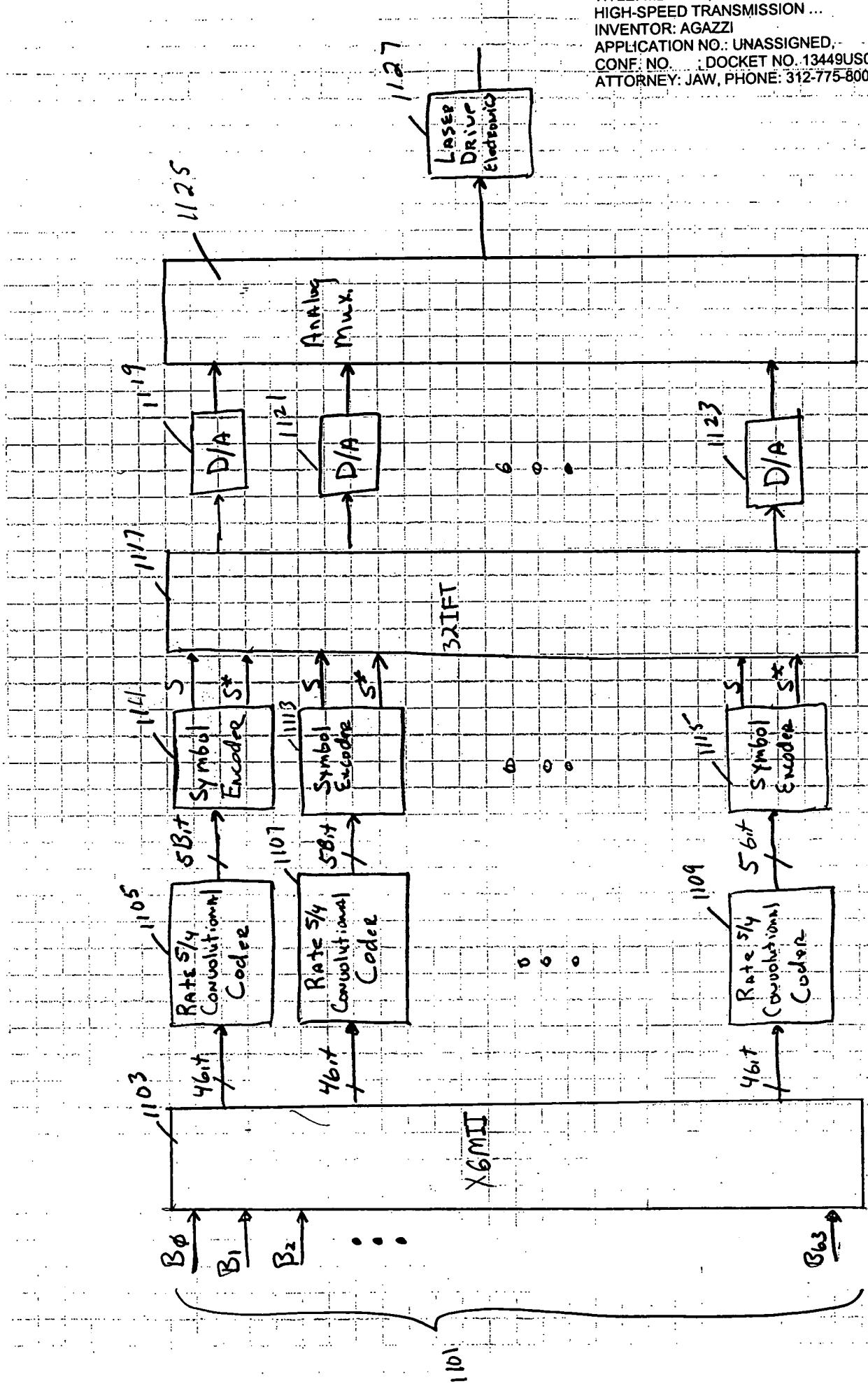


Figure 11

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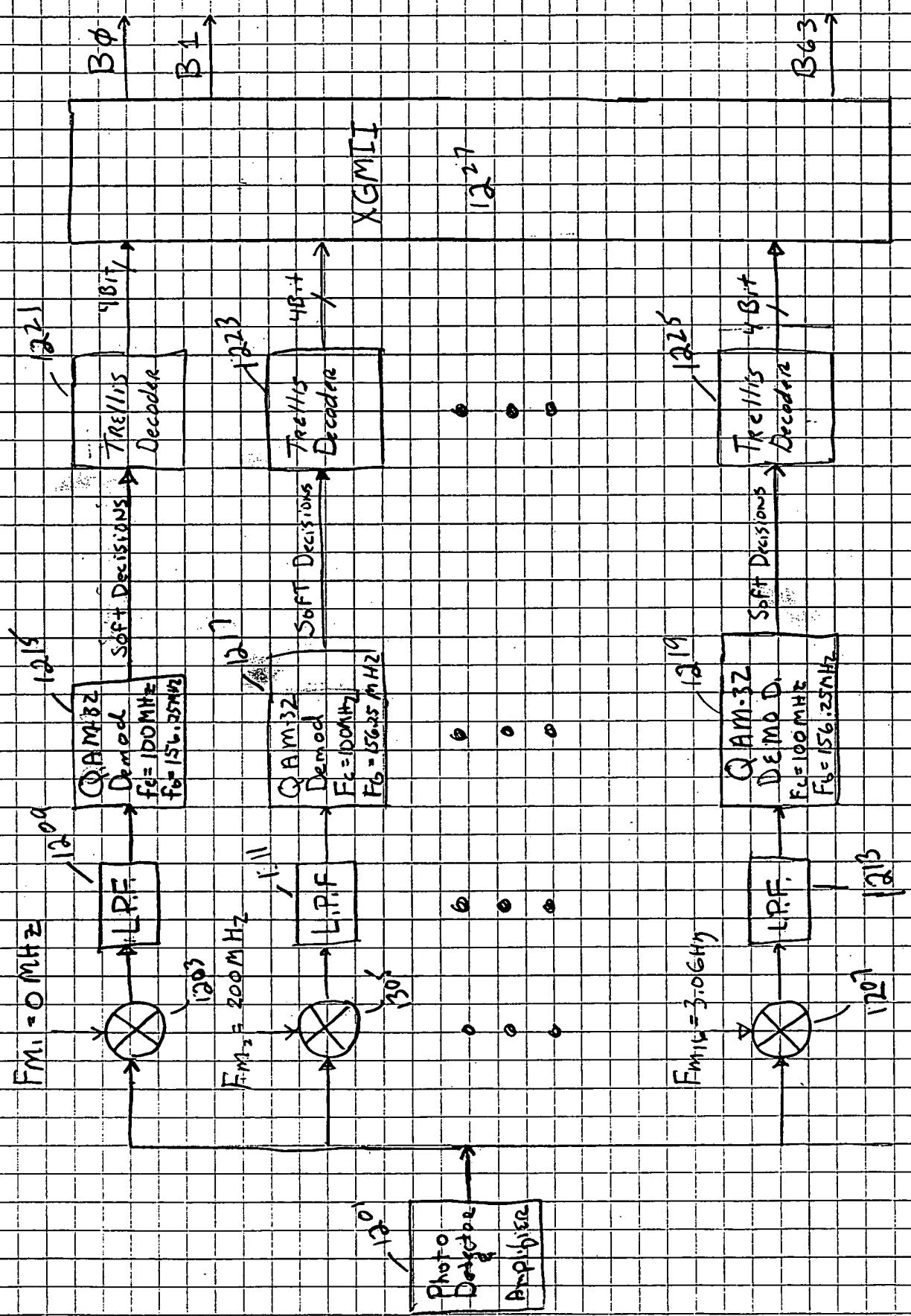


Figure 12.

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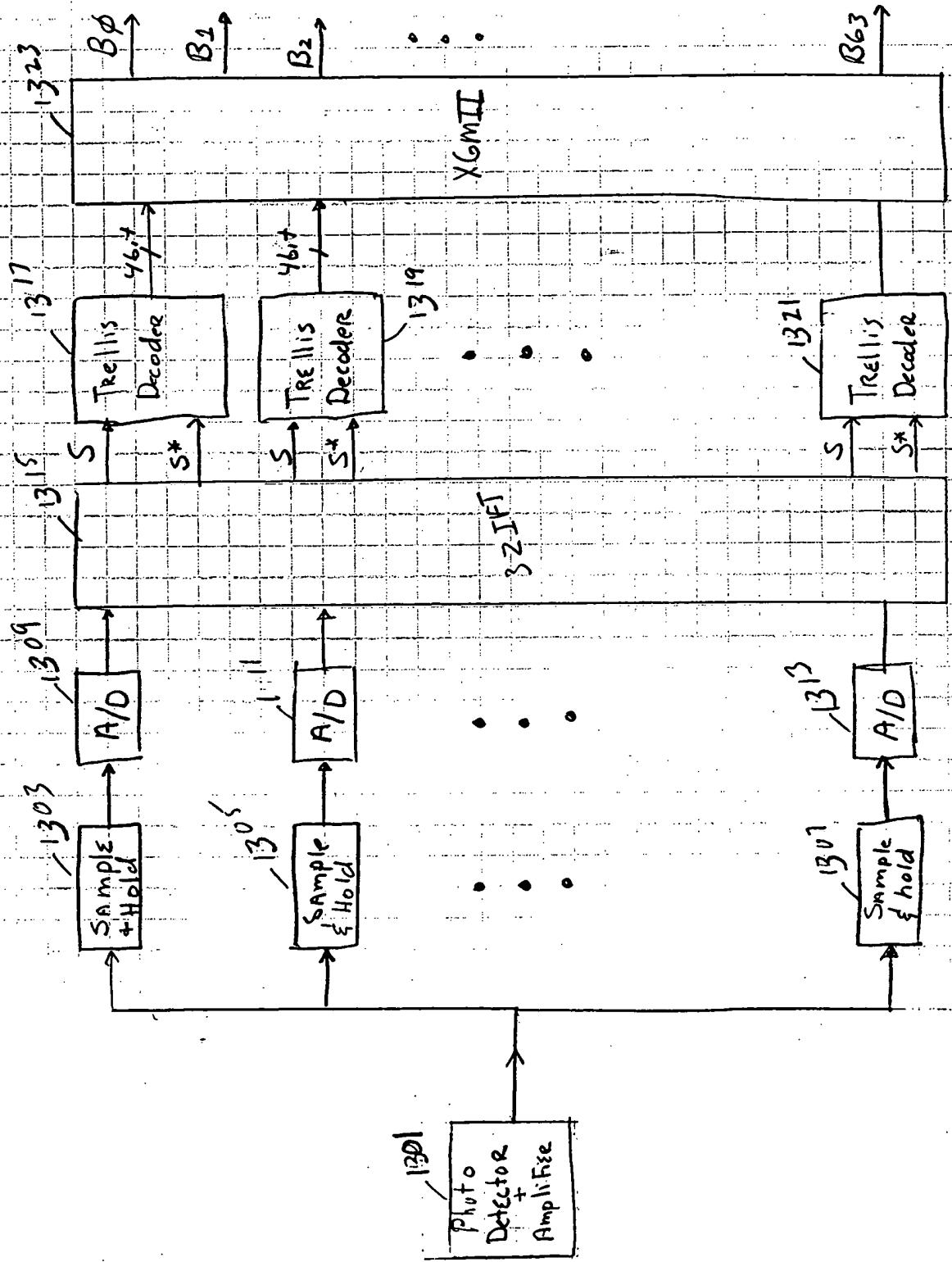


Figure 13